A Cyclotron With a Radial Travelling Wave of the SOV/83-7-1-9/26 Magnetic Field

particle acceleration occurs. In the case of the second variant, the travelling wave is superimposed on to the constant magnetic field of the cyclotron, so that acceleration takes place in a superposition field. The spatial distribution of the field in the wave causes the formation of a stability range, which is displaced in the radial direction according to the radial velocity of the particles. The stability range exists also if the absolute magnitude of the magnetic field increases sharply in the acceleration zone in the direction from the center to the exterior diameters. By means of the system suggested it is possible, in principle, to produce cycletrons for any particle energies. Irrespective of the fact that these accelerators operate cyclically, there are reasons to suppose that the average intensity in these accelerators is better than in a synchrocyclotron because of better focusing. The calculations given as an example show that the weight and the dimensions of the suggested accelerator are considerably lower and smaller respectively than the corresponding values of other types of accelerators for the same energy. There are 9 figures and 4 tables.

Card 2/3

A Cyclotron With a Radial Travelling Wave of the Magnetic Field

SOV/89-7-1-9/26

SUBMITTED:

January 6, 1959

Card 3/3

SOV/105-60-1-2/25 8(5),8(1) Gashev, M. A., Komar, Ye. G., Monoszon, N. A., Spevakova, F. M., AUTHORS: Stolov. A. M. The Supply System of the Electromagnet for the Proton-TITLE: synchrotron at the Consolidated Nuclear Research Institute Elektrichestvo, 1960, Nr 1, pp 6-10 (USSR) PERIODICAL: The biggest particle accelerator is at present the proton-ABSTRACT: synchrotron of the Ob"yedinennyy institut yadernykh issledovaniy Joint Institute of Nuclear Research). Protons with energies of up to 10 billions ev are obtained here, The supply system of the electromagnet is used for the production of a periodically alternating magnetic field with a repetition frequency of 5 per minute in the acceleration chamber of the proton-synchrotron. The main rated data of the supply system are: peak output 140 Mw, peak amperage 12.8 ka, peak voltage 11 kv, the energy stored in the magnetic field of the electromagnet 148.106 joule and the losses in the coil of the electromagnet 4 Mw. While connecting the coil of the electromagnet to the direct voltage, the current increases in accordance with an Card 1/4

The Supply System of the Electromagnet for the SOV/105-60-1-2/25 Proton-synchrotron at the Consolidated Nuclear Research Institute

exponential curve with a time constant of T = 25 seconds. When the current has reached 12.8 ka, the voltage changes its sign and the current drops. The source for the direct voltage is a system of synchronous generators driven by induction motors and of converters. The latter operate as rectifiers during the increase of the current and as inverters during the drop of the current. The schematic circuit diagram of the supply system of the electromagnet is shown in figures 1 and 2 and explained. The reduction of the output impulses in the supply system of the aggregate motors is obtained with the help of fluid slip controllers. The sealed pentode-ignitrons of type IVU 100/1500 2 with a mean rated current of 100 a and a return voltage of 15 kv. specially developed at the Vsesoyuznyy elektrotekhnicheskiy institut (All-Union Electrotechnical Institute) are used as valves for the converter installation. The method of operation of the valves is explained in detail and the influence of distributed capacitances on the operation of the valves is pointed out. These capacitances cause strong high-frequency oscillations with frequencies of dozens of kilocycles. The measures taken for eliminating these influences are mentioned

Card 2/4

The Supply System of the Electromagnet for the SOV/105-60-1-2/25 Proton-synchrotron at the Consolidated Nuclear Research Institute

in brief. The control system of the converter is supplied by an auxiliary generator (on the shaft of the main generator). The firing of the ignitrons is controlled with the help of a customary thyratron-condenser-circuit. This produces an impulse at the igniter lasting from 200 to 250 milliseconds at peak amperages of from 40 to 60 a. The phase shift between the controller impulses corresponding to the rectifier- and the inverter method of operation, amounts to approximately 140 degrees. The moment of the beginning of the method of operation as rectifier (of the converters) is controlled by a pickup with a contact system which conveys the signal to the trigger. In order to warrant the homogeneity of the magnetic field and to reduce the influence of residual magnetism on the magnetic field. the magnetic system is demagnetized during the interval of the main cycle. This is done with the help of impulses of the current of different polarity with an amplitude decreasing in accordance with a certain law. These demagnetizing impulses are produced by 2 converters with ignitrons of type IVU 100/1500. During backfiring, the converter is protected by back current quick-break switches. Each of the converters is protected against

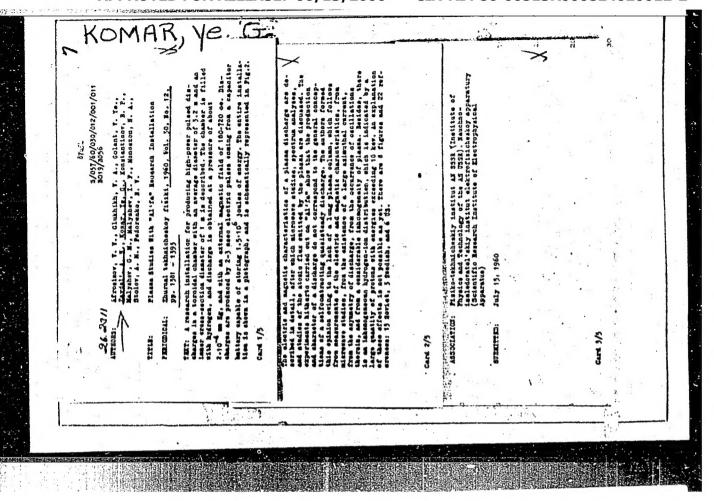
Card 3/4

The Supply System of the Electromagnet for the SOV/105-60-1-2/25 Proton-synchrotron at the Consolidated Nuclear Research Institute

short circuit currents by peak-current quickbreak switches. The windings of the electromagnet are protected against excess voltages by dischargers. The specific feature of the supply system investigated here is the circumstance that, during abnormal methods of operation the amperage in the converter (where the normal method of working was disrupted) is increased and the amperages in the other converters decrease, when the converters operate as inverters. To prevent this, a grid protection system is provided. Endurance tests showed that the supply system operates in a stable manner and warrants all methods of operation. There are 5 figures.

SUBMITTED: July 27, 1959

Card 4/4



S/057/60/030/012/002/011 B019/B056

26,2311

AUTHORS:

Glukhikh, V. A., Komar. Ya. G., Larionov, B. A.,

Malyshev, I. F., Monoszon, N. A., Stolov, A. M., and

Strel'tsov, N. S.

TITLE:

Technical Data and Main Parameters of "Al'fa" Research

Installation

PERIODICAL:

Zhurnal tekhnicheskoy fiziki, 1960, Vol. 30, No. 12,

pp. 1394 - 1403

TEXT: The results obtained by calculation were checked during planning of this research installation on a model having the scale 1/20. The following essential data were given: Mean diameter of the torus: 3200 mm, diameter of the cross section: 1000 mm. Margin of energy of the capacitor battery: 1500 kilojoules. Field strength of the rotational field: 0.2-8 v/cm. Maximum field strength of the magnetic longitudinal field: 1500 oe. Maximum discharge current: 300 ka. Leakage intensity of the six turns of the primary coil: 1.6·10-5 henries. Maximum induction of the magnetic conductor with a discharge current of 300 ka: 12,000 Gauss.

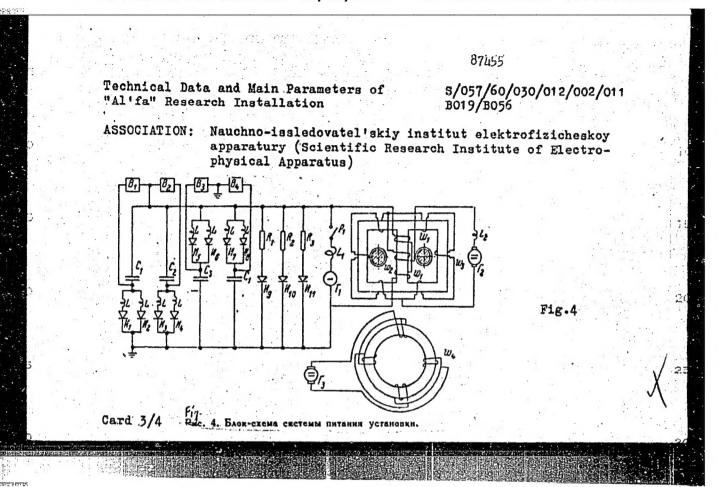
Card 1/4

Technical Data and Main Parameters of "Al'fa" Research Installation

S/057/60/030/012/002/011 B019/B056

Weight of the magnetic conductor: 110 t. Weight of the vacuum chamber: 4.5 t; total weight 156 t. The magnetic conductor is made of 3-42 (E-42) transformer steel, the primary coil for the retational field consists of 25 turns of a copper tube having a diameter of 26 mm. The coil for the longitudinal field consists of a copper tube with rectangular cross section, constructed from 40 single coils having 12 turns each. Current supply is discussed on the basis of the scheme shown in Fig.4. For the pre-ionization in the interior of the chamber, a high-frequency generator is used (4 mc). The outer chamber consists of 27 mm Al-sheets, the inner chamber of 0.2 mm stainless steel, and at the bushings, it is reinforced with 2 mm sheets. The vacuum system consists of 8 diffusion units, two pre-vacuum pumps, and one booster pump. L. B. Dinaburg, D. Ye. Zavarin, Ya. L. Mikhelis, B. I. Produvnov, B. V. Rozhdestvenskiy, D. G. Sorokin, et al. took part in developing this research installation. There are 7 figures.

Card 2/4



87455 \$/057/60/030/012/002/011 B019/B056

Legend to Fig.4: 1) $B_1 - B_4$ are thyratron rectifiers. 2) $N_1 - N_{11}$ are ignitrons. 3) Γ_2 and Γ_3 are generators for degaussing and for the longitudinal field.

Card 4/4

\$/057/60/030/012/003/011 B019/B056

26.2311 AUTHORS:

Klukhikh, V. A., Zavarin, D. Ye., Komar. Ye.

Larionov, B. A., Monoszon, N. A., Skotnikov, V. V., and

Stolov, A. M.

TITLE:

An Investigation of the Electric and Magnetic Discharge

Characteristics of "Al'fa" Research Installation

PERIODICAL:

Zhurnal tekhnicheskoy fiziki, 1960, Vol. 30, No. 12,

PP · 1404 - 1414

TEXT: The authors studied the electric and magnetic discharge characteristics under single-period conditions. The total discharge current is measured by means of a Rogovskiy girdle, having the shape of a spiral made of nichrome. The signal was integrated in an RC element, fed to one of the two channels of a double-beam oscilloscope. In a similar manner, the field strength of the rotational field was measured. According to voltage and current oscillograms the mean resistance of the plasma column and the energy generated in it were calculated, a constant inductivity of the discharge coil being assumed. Accordingly, the

Card 1/5

An Investigation of the Electric and Magnetic Discharge Characteristics of "Al'fa" Research Installation S/057/60/030/012/003/011 B019/B056

discharge column has an inductivity of (2-3).10 henries. Furthermore, an electron- and ion temperature of about 40.106 K was obtained with a pressure of 2.10-4 mm Hg and a discharge energy of about 100 kilojoules. The distribution of the magnetic field over the cross section of the chamber was determined with probes. The results obtained are graphically represented in Fig. 9. It was found that the electric current lines in the discharge are of helical character similar to the shape of the magnetic field, which leads to an increase of the longitudinal magnetic flux in the chamber. In order to conserve current constancy, it is necessary that rotational currents be induced in the walls of the outer chamber. This leads to a change in the field direction of the longitudinal magnetic field in the exterior discharge ranges and in the space between outer and inner chamber. The already mentioned increase of the field strength of the longitudinal magnetic field corresponds to a maximum azimuthal current in the plasma of a. Exactly this current must be induced in the walls of Card 2/5

87456

An Investigation of the Electric and Magnetic Discharge Characteristics of "Al'fa" Research Installation S/057/60/030/012/003/011 B019/B056

the outer chamber. From an analysis of the distribution curves of the magnetic fields and the discharge currents, it is found that the density vector of the electric current has a direction over the total discharge cross section, which nearly agrees with the direction of the magnetic field. Further, some experimental conditions were determined, under which the discharge current in the outer regions of discharge has a direction inverse to the discharge current in the inner regions. There are 11 figures, 1 table, and 6 Soviet references.

ASSOCIATION:

Nauchno-issledovatel skiy institut elektrofizicheskoy

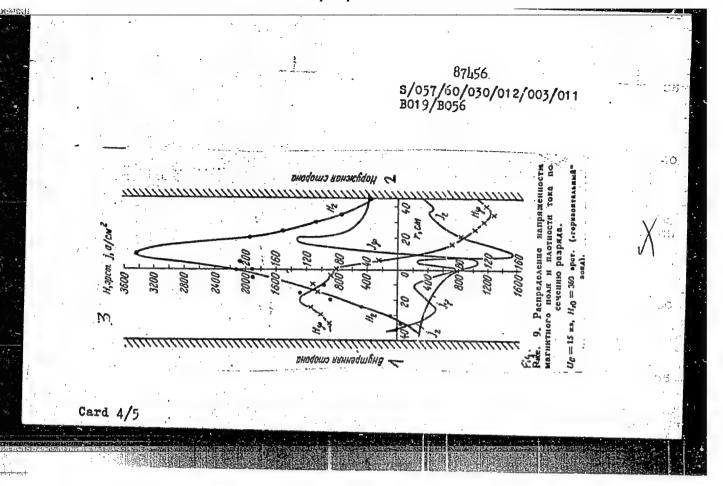
apparatury (Scientific Research Institute of Electro-

physical Apparatus)

SUBMITTED:

July 15, 1960

Card 3/5



APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020012-2"

Solution | Solution

CHERNICHKIN, D.S.; BORISENKO, N.I.; MESHCHERYAYKOV, K.N.; KOMAR, Ye.G.; FEDULOV, L.N.; KOZLINSKIY, V.A.; MAKSIMOV, A.S.; GEL'PERIN, B.B.

Professor D. V. Efremov; obituray. Elektrichestvo no.2:95-96 F '61.

(MIRA 14:3)

(Efremov, Dmitrii Vasil'evich, 1900-1961)

VLADIMIRSKY, V.V.; KOMAR, Ye.O.; MINTS, A.L.; COL'DIN, L.L.;

MONOSZON, N.A.; HUBCHINSKIY, S.M.; TARASOV, Ye.K.; VASIL'YEV, A.A.;

VODOP'YANOV, F.A.; KUSHKAREV, D.C.; KURYSHEV, V.S.; MALYSHEV, I.F.;

STOLOV, A.M.; STREL'ISCY, N.S.; YAKOVLEV, B.M.

The 7 bev. proton synchrotron. Prib. i tekh. eksp. 7 no.4:5-9
J1-Ag '62. (KIRA 16:4)

l. Institut teorgticheskoy i eksperimental noy fiziki Gosudarstvennogo komitete po ispol'movaniyu atomoy energii SSSR, Mauchno-issIedovatel*skiy institut elektrofizicheskoy apparatury Gosudarstvennogo komiteta po ispol'movaniyu atomoy energii SSSR i Radiotekhnicheskiy institut Gosudarstvennogo komiteta po ispol'movaniyu atomoy energii SSSR. (Synchrotron)

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AUTHORS:

Vladimirskiy, V. V., Komar, Ya. G., Mints, A. L., Gol'din, L., Monoszon, N. A., Rubchinskiy, S. M., Tarasov, Ye. K., Vasil'yev, A. A., Vodop'yanov, F. A., Koshkarev, D. G., Kuryshev, V. S., Malyshev, I., F., Stolov, A. M., Strel'tsov, N. S., Yakovlev, B. M.

TITLE:

The design of the 7-Bev proton synchrotron

PERIODICAL:

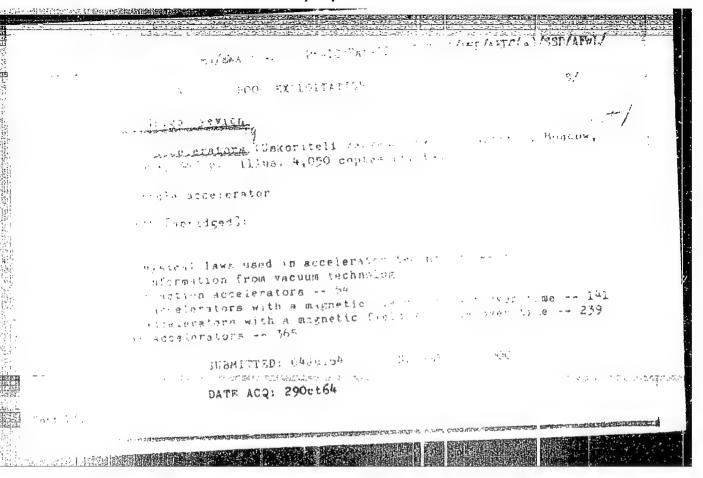
Atomnaya energiya, v. 12, no. 6, 1962, 472-474

TEXT: The history of the first Soviet cyclic accelerator with rigid focusing is briefly described, and the most important data on its planning and operation are presented. Planning was started in 1953. The parameters of this proton accelerator, the energy of which exceeds the antinucleon production threshold, were so chosen that the dependence of the orbital production threshold, were so chosen that the dependence of the orbital circumference on the particle momenta was completely compensated. This was achieved by employing 14 quadrupole magnets with orbits of negative achieved by employing 14 quadrupole magnets with orbits of negative curvature. Technical data: output current, 1010 protons/pulse; maximum curvature. Technical data: output current, 1010 protons/pulse; maximum field strength, 8475 oe; length of equilibrium orbit, 251.2 m; radius of

Card 1/2

-sure and | table.

SUBMITTED: Card 2/2 March 12, 1962



Pab-10/Pt-7 5/0000/64/000/000/00058/0064 EVIT(π)/EPA(w)-2/ENA(m)-2 42 Tayrikov, N. I.; Monoszon, N. A.; Titov, V. A.; Shakeylo, I. A.; Komar. - " P: AT5007913 righ-energy accelerator with a supplementary control beam of particles ternational Conference on High Energy Accelerators Dubne, 1963. ;;cw, Atomizdat, 1964, 58-64 . high energy accelerator, particle accelerator, particle beam Tata is presented to show the technical and a county feasibility of Tig a 1000-Gev proton accelerator with siring the angle which accords with purience in the development and operation of outperchase The basic de-Threes and tolerances permitted in this intelligator are illeguased. An learn would be employed to determine the nicerdies of the magnets and willity of the foundation, thus permitting the needed corrections to be main orbit of particles. An auxiliary charge of large cross-section mit determination of the beam's position it various pross-sections and the

NR: AT5007913 .. milation of the height and radius of the paymeth. Formertions similar gnaled by the displacement of the orbit of the auxiliary leam would be introduced during the operation of the machine when the foundation is unstable, - of the main beam has been chosen to be fix ? In. place to that planned and The auxiliary beam would have no bearing in the tiderated errors and ... If the magnetic fields of the main electromagnet, since it would control . The tric configuration of the blocks of the electromagnet, considered the i in the case of very large orbital rail les. With an electrostation ten having a potential of 35 ky between the leater, it is calculated, * intential difference of only 10-5 of the main patential sould exert no in the position of the auxiliary beam. The I now fill in the straight The have negligible effect on the main result, processe the exciliary beam re spatio system is situated in a zone of space street file is (one oerstshelded (by permalloy) just as in the contribution the magne system of the the alternative of an optical auxiliary bear for al grment was not linge a proton beam was found simplest of employ. We attempts were made may fields in the straight sections of the main electromagnet, which :. problem for all accelerators and not therefore considered in the pres-The stray fields' effect on the orbit of the auxiliary beam is small

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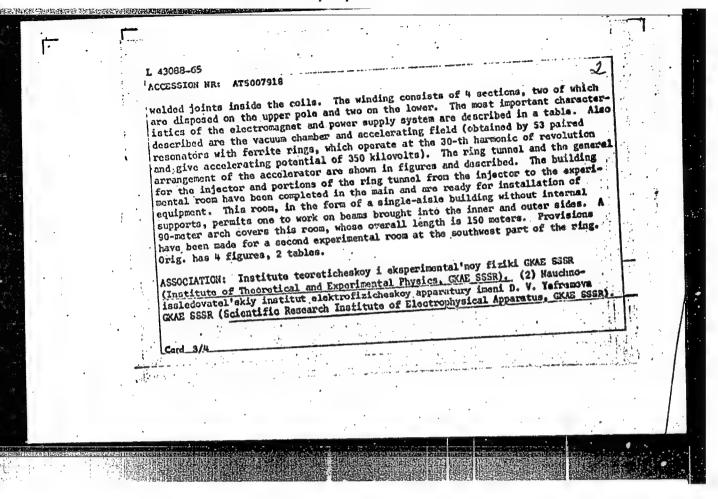
L 43088-65 EWT(m)/ EPA(w)-2/EWA(m)-2 ACCESSION NR: AT5007918 AUTHOR: Vladinirskiy, V. V.; Gol'din, L. Yckovlev, B. H.; Guatov, G. K.; Komar, Y. Monoszon, N. A.; Popkovich, A. V.; Stolo Vodop'yanov, F. A.; Kuz'min, A. A.; Kuz' S. H.; Uvarov, V. A.; Zhadanov, V. H.; F TITLE: 60-70 Gev Proton Synchrotron SOURCE: International Conference on High Monosow, Atomizdat, 1964, 197-201 TOPIC TAGS: high energy accelerator, synchrotron Topic Tags: high energy accelerator, synchrotron Electro-Physical Equipment, Leningrad, we can be a superior on High Energy Accelerators and In present report describes parameter chan characteristics of the accelerator, and 1963. The parameters of the magnet are the original plans permitted an increase Cord. 1/4	L.; Koshkarav, D. G.; Tarasov, e. G.; Kulikov, V. V.; Kalyahev, V. A. H.; Strel'tsov, N. S.; Titmin, V. F.; Hints, A. L.; Ruhchillaretov, S. G.; Shiryayev, F. Z. The Energy Accelerators. Dubna, 10 proceedings of the Internation of the Internation (CERN, 1959), p. 3 ges and improvements in precision the present state of construction the present state of construction.	constructed stitute for onal Confer- 73). The m structurel on in Eide- change in
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ACCESSION NR: AT5007918

sections, some of which are utilized for input and exit of beams. The super-period design is described. The lengthened sections were obtained as a consequence of shortening the focusing and defocusing blocks by 112 cm. The focusing properties of the magnetic channel were diminished consequently, but very little; and the limiting energy was lowered by 2-3 Gev. The construction of the magnet is described Each of the magnetic blocks is divided lengthwise into 5 sub-blocks which are enveloped by the common winding. These sub-blocks consist of laminar two-millimeter silicon steel. These steel sheets were stamped out without subsequent mechanical working, and were subjected to sorting and intermixing in order to smooth out their magnetic characteristics. The sub-blocks are constricted by lateral welded plates without adhesion. Provision was made for windings on the poles in order to correct for pole nonlinearity and for variations in the drop reading. These windings make it possible to introduce artificial quadratic (square) nonlinearity that changes the dependence of the frequency of transverse oscillations during a pulse. In order to correct for straying of the residual field, provision has been made for windings on the yoke in series with the main winding. The sub-blocks must undergo calibration on a magnet stand in order to make correcting systems more precise and to determine the most convenient disposition of the sub-blocks along the ring. The winding of the electromagnet is made of aluminum bushers with hollow cores for cooling water. / The length of the busbar is so selected that there wald be no

Card _2/4



		ACCESSION NR; AT5007918
		(3) Radiotekhnicheskiy institute AN SSSR (Radio Engineering Institute, Academy of Sciences SSSR). (4) Gosudarstvennyy proyektnyy institut GKAE SSSR (State Planning Institute, CKAE SSSR).
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2011-11 200141 0014 01 014 00) -21 551(W) -01 2001 011 11 551(0) -21 2011 016 in the felt when the sight \$/0089/64/017/004/0287/0294 AP4047415 ishev, M. A.; Gustov, G. K.; D'yachenko, K. K.; Komar, * shey, I. F.; Monoszon, N. A.; Popkovich, A. Val. . K.: Rozhdestvenskiy, B. V.; Rumyantser, N. N.; Saksa-. .; Spevakova, F. M.; Stolov, A. M.: Strei'tsov, Y. S.; ir technical characteristics of the 'Tokamak-3' experi-* :monuclear installation W mnava energiya, v. 17, no. 4, 1964, 287-294 thermonuclear pinch, thermonuclear fesion, plasma rerearch, plasma ,inch / Tokomak-3 Apembar. The "Tokamak-3" is intended for the investigation of a Masi-stationary discharge in the strong longitudinal mag-The toroidal discharge is produced in the vacuum cham-

P: AP4047415

The produced plasma panch is stabilized intriduced magnetic field of a torcidal sclenoid, inside vacuum chamber is located. The magnetic fore of the pulse rearries the primary vortical-field winding, the demagnition and the winding for industrian heating. The settion special power systems. The electromagnetic system, supply, and the vacuum system are described in some detail, final field intensity reaches 41 kg. The continal field intensity reaches 41 kg. The continal field and 50 will-and with programming of the waveform such as to maintain current in the plasma pinch. The power supply delivers a of 77,000 kW, maximum 7000 A, no-local voltage 11 kV, and rgy 180 million Joules. The vortical field is fed from

four capacitor banks rated 1990 pr at 20 kv. 11,000 pf at 10 kV.

e varied over a wide range. The recoum in the liner does

NR: AP4047415

1--2 x 10⁻⁷ mm Hg during the interval between gas admistive pressure in the outside chamber being 1--2 x 10⁻⁶; art. has: 8 figures.

None

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NR REF SOV: 000

OTHER: 000

GASHEV, M.A.; GUSTOV, G.K.; D'YACHENKO, K.K.; KCMAR, Ye.G.; MALYSHEV, I.F.; MONOSZON, N.A.; POPKOVICH, A.V.; RATNIKOV, B.K.; ROZHDESTVENSKIY, B.V.; RUMYANTSEV, N.N.; SAKSAGANSKIY, G.L.; SPEVAKOVA, F.M.; STOLOV, A.M.; STREL'TSOV, N.S.; YAVNO, A.Kh.

Principal mechanical characteristics of the experimental thermonuclear plant "Tokamak-3." Atom. energ. 17 no.4:287-294 0 '64. (MIRA 17:10)

KOZAKEVICH, P. P.; LEYBA, S. P.; KOMAR, Ye. P.

"Viscosity in the Ternary Systems Forming Open-Heart Slags. The Gystem FeO-CaO-SiO2"; Zhur. Fiz. Khim; Insti. of Metals, Physico-Chem. Lab., Kar'kov; Rcd 17 July 1938.

Report U-1613, 3 Jan. 1952.

BARMOTINA, Z.G.; DUSHSKAYA, R.Ye.; KOGAN, R.B.; KOMAR', Ye.P.;
KOMONEMEC, A.F.; ORLOVA, R.S.

Analysis of chromites. Trudy Ukr.mauch.-issl.inst.met.
no.5:264-272 '59.
(MIRA 13:1)
(Chromites) (Metallurgical analysis)

SIDCRSKI, T.; BIENIEK, J.; KOMAR-KLATT, K.; KUZINOWICZ, E.

Causes of the appearance and therapeutic results in delayed union and pseudarthrosis of the long bone according to our material. Chir. narz. ruchu ortop. polska 26 no.5:575-583 '61.

1. Z Kliniki Ortopedycznej AM i Oddzialu Ortopedycznego Szpitala Wojewodzkiego we Wroclawiu Kierownik: dr J.Kowalski.
(FRACTURES UNUNITED) (PSEUDOARTHROSIS)

KOMARA, S.;

Second Regular Annual Assembly of the Union of Chambers of Agriculture and Forestry of Yugoslavia. p. 5.

A session of the Administrative Committee of the Union of Chambers of Agriculture and Forestry of Yugoslavia. $p.~18_\circ$

Vol. 4, no. 8/9, 1958.

Periodical: FNRJ. GLASNIK. Beograd.

AGRICULTURE

SO: Monthly List of East European Accessions (EEAI) LC

Vol. 8, No. 4 April 1959, Uncl.

SZAMOSI, Jozsef, dr.; KOMARAS, llonu, dr.; VARGA, Tibor, dr.

Diagnostic significance of intravenous pyelography in urinary tract infections in children. Orv. hetil. 105 no.37:1734-1738 13 5 164.

1. Fovarosi Tanacs, Kozponti Gyermekegeszs wyzi Modszertani, Tudomanyos Kutato es Tovabbkepzo Intezet, Gyermekosztaly Rtg. Osztaly.

HARHA, Konstantin; KOMARAS, Milan

Iodine pregnancy test. Cesk, gyn. 22[36] no.5:392-393 June 57.

1. Ustav pre lekarsku chemiu, prednosta s. do. Dr D. Torkuljak a porodnicko-gynekologicka klinika, prednosta prof. Dr. T. Sohwarz, (FRENAUCY TESTS iodine test, technic (Cz))

LEVNTAL, Zdenko, doc., dr.; STRASER, Toma, doc., dr.; KOMARECKI, Viktor, dr.

On certain mental factors in the development of hyperthyroidism. Med. glasn. 15 no.2/2a:91-96 F '61.

1. Interna klinika B Medicinskog fakulteta u Beogradu (Upravnik: prof. dr R. Berovic). 2. Urednik, "Medicinski glasnik" (for Levntal).

(HYPERTHYROIDISM psychol)

KCMARCEVIC, D.

KCMARCEVIC, D. Some observations on the performing of selected tests with winter wheat. p. 52

Vol 2, no. 10, Oct. 1954 POLJOPRIVREDA AGRICULTURE Beograd

SO: MCNTHLY LIST OF EAST EUROPEAN ACCESSIONS, (EEAL), LC, VOL. 4, no. 9. Sept.1954, Encl.

KOMBECHEY,

SUBJECT:

USSR/Welding

135-2-8/12

AUTHORS:

KOMARCHEV, A.I., Engineer, and SHRAER, A.B., Candidate of

Technical Sciences.

TITLE

Radial spot-welding machine for light alloys, (Radial'maya

Cochechnaya mashina dlya sverki legkikh splavov).

PERIODICAL:

"Sverochnoye Proisvodstvo". 1957. # 2. pp 23-26 (USSR)

ABSTRACT:

The welding machine MT NP-600, put into production in 1956 at the plant "Elektrik". The machine, designed by VNIIESO for welding light alloys, accommodates stock from 0.5+0.5 to 1.5+1.5 mm thick, has an overhang of 900-1200 mm, and the distance between shoulders is adjustable between 200 and 600mm. Supplied together with the machine is the ignitronic circuit breaker NNTM-150 which controls the current value in the range between 40 and 100 % of its maximum, and the duration of the current impulse between 0.02 and 0.5 sec.

An editor's note to the article states that the welding machine MTNP-600 is stated to be less complicated than the type MTMN. Simultaneously it consumes high single-phase power at cos P = 0.25. It is yet to be found out where each

Card 1/2

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R00082
Redial spot-welding mechine for light alloys, (Redial rays) CIA-RDP86-00513R000824020012-2 tochechnaya mashina diya svarki legkikh splavov). 135-2-8/12

of the two types is to be most rationally applied,

The article contains detailed description of the electric scheme, 4 diagrams, 1 drawing and 2 photographs.

INSTITUTION: BHUNGCO (VALLESO) all Union Son Rea Land

PRESENTED BY:

Electric willing machines

SUBMITTED:

AVAILABLE

At the Library of Congress.

Card 2/2

KOMARCHEV, A.I.; MIRKIN, A.M.

The MTPU-300 universal resistance spot-welding machine.
Biul.tekh.-ekon.inform.Gos.nauch.-issl.inst.nauch.i tekh.
inform. no.9:31-32 '62. (MIRA 15:9)
(Electric welding-Equipment and supplies)

44999

S/135/63/000/002/012/015 A006/A101

1.2300

AUTHORS:

Zaychik, L. V., Candidate of Technical Sciences, Komarchev, A. I.,

Engineer

TITLE:

Capacitor machine for spot welding large-size light-alloy struc-

tures

PERIODICAL: Svarochnoye proizvodstvo, no. 2, 1963, 35 - 38

TEXT: In 1961, VNIIESO has designed and tested an experimental model of the MTK-75 type capacitor machine, intended to weld large-size up to 2.5+2.5 mm thick, light-alloy structures. The machine will be produced in series at the "Elektrik" Plant. It operates on three-phase current. The upper electrode is pneumatically driven by means of membranes. The electric power part of the machine consists of a charge and discharge device. Its operation is described in detail. Values $I_{weld,max}$, t_1 and t_2 , characteristic of the welding pulse, are regulated within a wide range. By tuning the initial voltage on the operating capacitor battery (within 300 - 400 v), its capacitance, and the coefficient of transformation $\frac{W_1}{W_2}$ of the welding transformer, an unlimited number of different

Card 1/3

5/135/63/000/002/012/015 Capacitor machine for spot welding... A006/A101 welding current pulses can be obtained within the range of extremal pulses. machine was tested at NIAT. The tests show that the extremal deviations of the rupture load from mean values do not exceed (8 - 12)%, against 14 - 20% for specimens which were welded by using current directly from the network. The main advantages of the machine are the efficiency and stability of pulses and constant welding quality. The relatively low capacitor voltage assures safe operational conditions. As the shape and magnitude of pulses do not depend upon the network voltage and the power required is low, the machine is particularly valuable in cases when high-quality welds are required, using a weak or overloaded electric circuit. Some technical characteristics are: Rated power from a three-phase network in kvamp Thickness of parts in mm from 0.5+0.5 to 2.5+2.5 Efficiency in welding parts of maximum thickness; spots per minute . . . 30 Maximum welding current pulse b) time of current increase from 0 to the amplitude value in sec 0.04 c) full pulse time sec Card 2/3

Cn	pacitor m	achine for	spot wol	ding		•	S/:	135/63 36/A10	3/000 11	/002/0	012/01	•	
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ACC NR: AP6011540 SOURCE CODE: UR/0135/66/00C/004/0040/0041	Mar.
AUTHOR: Zaychik, L. V. (Candidate of technical sciences); Komarchev, A. I. (Engineer). Chuloshniko, P. L. (Engineer)	
RG: none	
SOURCE: Svarochnoye proizvodstvo, no. 4, 1966, 40-41	,
OPIC TAGS: welding equipment, welder, spot welding, aluminum alloy, magnesium lloy, brass, titanium steel / MTK-4 welder, welder, 10 MTK-10 welder, MTK-15 welder, 10 MTK-100 welder, MTK-100 welder	
BSTRACT: Following is a brief description of the newly developed, improved TK-4, MTK-10, MTK-15, MTK-40, MTK-75, MTK-100, and MTR-1 Soviet welding machines dapted for the quality welding of light (Al and Mg) alloys, brass and titanium,	
s well as of stainless, high temperature, and low-carbon steels. These machines are designed with capacitors of a low charging voltage (up to 400 v) and they assure high heating rate and a wide range of the amplitudes and durations of the current ulse. Their power requirement is 10-20 times as low as that of the conventional ingle-phase machines. For example, to weld Al alloys measuring 1.5 + 1.5 mm in	
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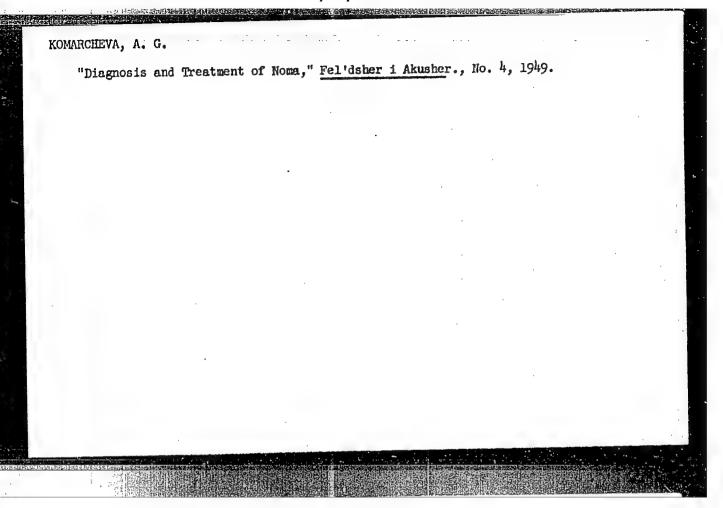
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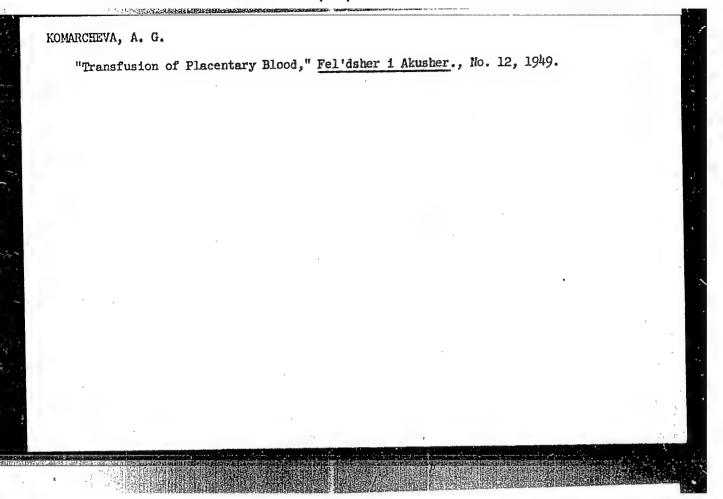
Card 2/4 n

thickness, a single-phase machine consumes ~300 kva whereas a percussive machine needs only 15 kva. The use of these machines lispenses with the restrictions on the employment of resistance welding due to the inadequate power of the shop electric systems. The MTK-40 and MTR-1 are already regularly produced; as for the production of the other models, its organization should be expedited, since it is so much more economically expedient than the modernization of the old single-phase machines.

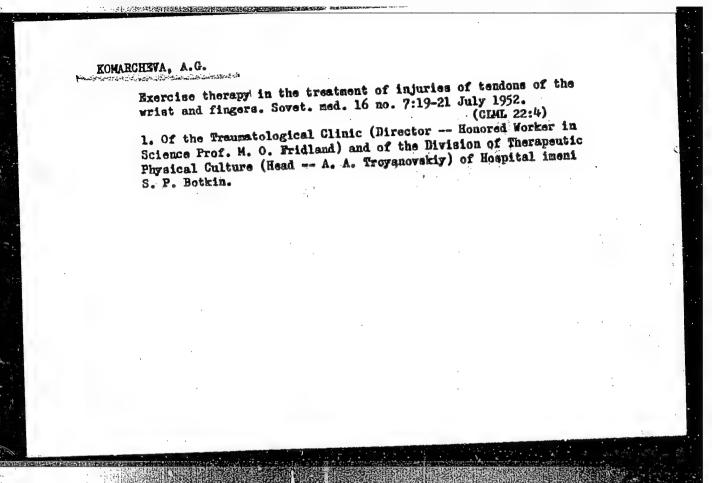
Orig. art. has: 4 figures, 2 tables.

SUB CODE: 11, 13/ SUBM DATE: none/ ORIG REF: 064





APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020012-2"



KOMARCHEVA, A. G.

"Primary Tendinous Comissures of the Fingers, Wrists, and Forearms."
Cand Med Sci, Central Inst for the Advanced Training of Physicians, 7 Dec 54. (VM, 24 Nov 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (11)

SO: Sum. No. 521, 2 Jun 55

Faget's disease. Ortop., travm. i protez. no.6:36-38 M-D '55.

(MLRA 9:12)

1. Iz travmotologicheskogo otdeleniya (nauchnyy rukovoditel' prof. D.K.Yasykov) Bol'nitsy in. Botkina.

(OSTEITIS DEFORMANS

clin. aspects & ther.)

KCMARCHEVA, A.G., kandidat meditsinskikh nauk

Late results of the primary tendon suture of the hand and fingers.

Ortop., travm.protex. 17 no.5:37-40 S-0 '56. (MIRA 10:1)

1. Is travmatologichaskogo otdeleniya (nauchnyy rukovoditel' - prof. D.K. Yazykov) Noskovskoy klinichaskoy ordena Lenina bol'nitsy im. S.P.Botkina (glavnyy vrach - prof. A.N.Shabanov) (HAND, surg. tendons, primary suture, remote results) (FINGERS, surg. same)

VILL:, V.I.; KOMARCHEVA, E.S.

Friction welding of immovable parts by means of rotating a third body. Avtom.svar. 13 no.6:23-27 Je 60. (MIRA 13:7)

1. Vsesoyuznyy nauchno-issledovatel skiy institut elektrosvarochnogo oborudovaniya. (Cold welding) (Reinforcing bars-Welding)

32774

S/135/62/000/001/004/007 A004/A101

1.2310 1573

Shternin, L.A., Komarcheva, E.S., Val'ter, I.G., Engineers

TITLE:

AUTHORS:

Friction welding in the manufacture of turbo-compressors

PERIODICAL:

Svarochnoye proizvodstvo, no. 1, 1962, 14 - 16

TEXT: The authors analyze the results of technological investigations of the friction welding of austenitic 3M 572 (EI572) steel to pearlitic steels of the OXM (OKhM) and 40 X (40Kh) grades. They describe the welding conditions and heat treatment and present the results of mechanical testing of the welding joints. The investigations to study the possibility of using friction welding in the manufacture of turbo-compressor runners were carried out by VNIESO and TSNIDI. The 40Kh grade steel was subjected to preliminary heat treatment 2 oilhardening at 840°C, tempering at 550°C (with subsequent water cooling) - while the OKhM steel was welded as delivered. The austenitic steel blanks were produced by investment pattern casting and subjected to the following heat treatment: austenizing 1,160 - 1,180°C with water quenching, dispersion hardening at 750°C with 15 hours holding and air-cooling. Specimens 16, 20 and 28 mm in diameter were welded. The chemical and mechanical properties of the steels are shown in Card 1/3

X

S/135/62/000/001/004/007 A004/A101

Priction welding ...

a number of tables. The major part of the welding operation was carried out on MCT -31 (MST-31) machine, developing an axial stress of up to 14,000 kg, while the relative rotation speed of the blanks being welded amounted to 1,000 rpm. The authors give a description of the welding conditions and point out that an analysis of the results obtained at different welding conditions shewed that the notch toughness of the welding joint was stable only under the condition of using a specific peening force equal to 21 kg/mm2. In this case, the specific heating stress amounted to 6 kg/mm². A batch of specimens friction-welded under these conditions, was subjected to mechanical tests the results of which are shown in a table. Moreover, fatigue strength tests of the welded specimens with alternating loads were carried out on the By -8 (VU-8) machine at the Leningradskiy politekhnicheskiy Institut im. Kalinina (Leningrad Polytechnic Institute im. Kalinin). In the tensile and endurance tests all welding joints were destroyed along the EI572 steel base metal. The authors present a number of microsections, showing the microstructure of the welded specimens after etching. The analysis of the mechanical and metallographic investigations reveals that the friction welding of austenitic steel to pearlitic steel yields a dependable joint with a sufficiently high strength, exceeding in some cases the indices of welded austeni-

Card 2/3

32774

Priction welding ...

8/135/62/000/001/004/007 A004/A101

tic steels. The equipment existing and being under construction at present for friction welding makes it possible to weld turbo-compressor runners with shafts up to 50 mm in diameter. There are 6 figures and 5 tables.

ASSOCIATIONS: VNIIESO (Shternin, L.S., Komarcheva, E.S.); TaNIDI (Val'ter, I.G.)

X

Card 3/3

ACCESSION NR: AP4040701

\$/0135/64/000/006/0023/0024

AUTHORS: Vill', V. I. (Candidate of technical sciences); Komarcheva, E. S. (Engineer); Shternin, L. A. (Engineer)

TITLE: Friction welding of thin-wall pipes made of aluminum alloys

SOURCE: Svarochnoye proizvodstvo, no. 6 (630), 1964, 23-24

TOPIC TAGS: welding, pipe, thin walled pipe, aluminum alloy, steel 1Kh18N9T, aluminum AD1, aluminum AMts, welder MST31

ABSTRACT: Butt-welding of pipes with the ratio $D/\delta = 25$ -30 often produces deformation and lowers thermal properties. To avoid this, a new method was developed for welding thin-wall pipes different metals with different thermal porperties (such as steel and aluminum). This improved friction-welding technique resulted in higher quality of welds, localized heating, small power comsumption, and the even distribution of temperature along the welding surface. A serious obstacle in the practical application was the initial ellipticity of pipes and their off-axial alignment in the welder. These shortcomings were eliminated by the design of a special device shown in Fig. 1 of the Enclosure. Here two cylindrical plugs (1 and 2) were fitted into the pipes; a cylindrical rod (3) freely entered Cord 1/3

ACCESSION NR: AP4040701

the bearing (4) which was fixed in the plug (1). The guide placing the rod in the bearing secured an accurate axial allignment of the details; it did not prevent their free rotation before and during welding. Plugs fitting tightly into the pipes eliminated their ellipticity. Experiments were performed with steel 1khl8N9T and aluminum alloys AD-1, AMts in a MST-31 welder. Brittle interlayers were eliminated, destroyed, or removed in the course of friction welding by the low rate of heating which slowed down the diffusive processes, and by forging-pressures. Orig. art. has: 1 table and 4 figures.

ASSOCIATION: VNITESO

SUBMITTED: 00

ENCL: 01

SUB CODE: MM

NO REF SOV: OOO

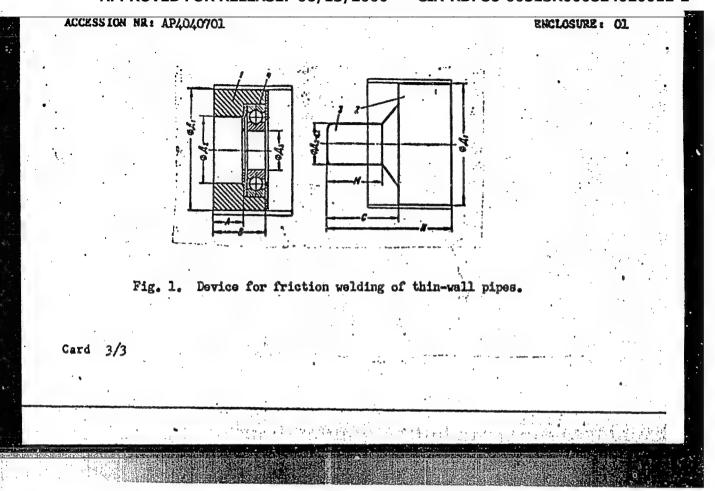
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one continue in the state of the continue of t \$70,25765,00079037003570038 JON NR: AP5007352 W. Villi, V. I. (Candidate of technical sectores). Komarcheva, E. S. intestigating the processes of friction, went and ferrous metals Avtomaticheskaya svarka, no p. 12 5 65 35 friction welding, compress : -The results are broofly constant of a second time of the second time o tire thicking -1 1 211 the dates to a global and a second . Fr. -1. P. T. A. L. F. E. ... 1. 5 (4) - 2057 (1.10 PM): (表达) (1.10 PM): ... 45. THE LEASE STATE OF A S PART TWEET

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1. 36056-66 ENT(m)/TUP(v)/T/EVP(t)/ETT/EVP(v) TIP(v) TIP(v

AUTHOR: Val'ter, I. G. (Engineer); Komarcheva, E. S. (Engineer)

#10 #B

ORG: none

TITLE: Friction welding of high-alloy steels used in diesel supercharger elements

SOURCE: Energomashinostroyeniye, no. 12, 1965, 26-29

TOPIC TAGS: austenitic steel, pearlitic steel, low alloy steel, friction walding, supercharger, welding technology/EI696ML austenitic steel, EI787L austenitic steel, EI893L austenitic steel, 40G pearlitic steel, 40Kh pearlitic steel

ABSTRACT: One of the requirements which must be met by the austenitic high-alloy steels used as the material of supercharger elements (rotors) is the possibility of welding them to the low-alloy pearlitic steels of which the rotor shafts are manufactured; this makes for special problems considering that the arc and resistance welding techniques are inadequate for such cases. In this connection, the authors point to the advantages of employing friction welding, as based on experimental findings for the welding of the following combinations of austenitic and pearlitic steels: 1) E1696ML + 40G; 2) E1696ML + 40Kh; 3) E1787L + 40G; 4) E1787L + 40Kh; 5) E1893L + 60G, for which the following conditions are established as optimal: heat-generating pressure ph = 6 kg/mm²; contact pressure pc = 21 kg/mm²;

Card 1/2

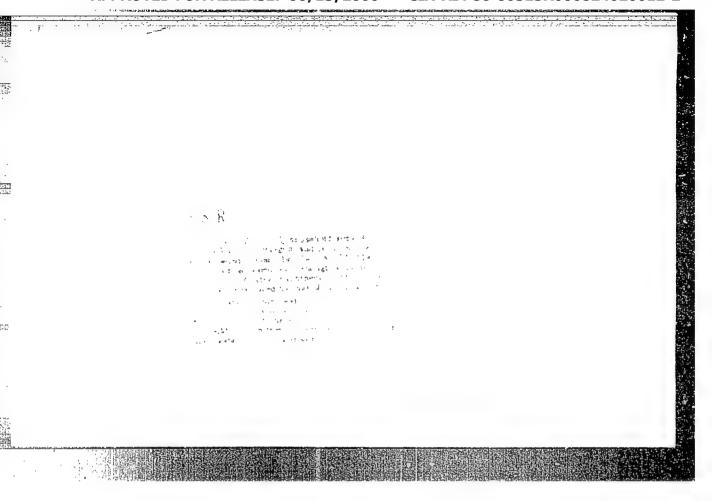
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n = 1000 of impact examinat: time requ	RPM. This re t strength, to ions. Moreove uired to prepa	sec ⁻¹ ; total upset $\Sigma \sigma = 3-3$ egime assures stable, high-q ensile strength and static b er, the employment of fricti are the rotor and the shaft	uality join ending as w on welding for welding	its, as ver rell as by a markedly re g, as well o	ified by tests setallographic setuces the selding
time its	elf, and it al	lso reduces power consumptio electrodes. Orig. art. has:	n and dispe	nses with	the need for
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VAJGAND, Vilim; KOMARCEVIC-JEVTIC, Divna

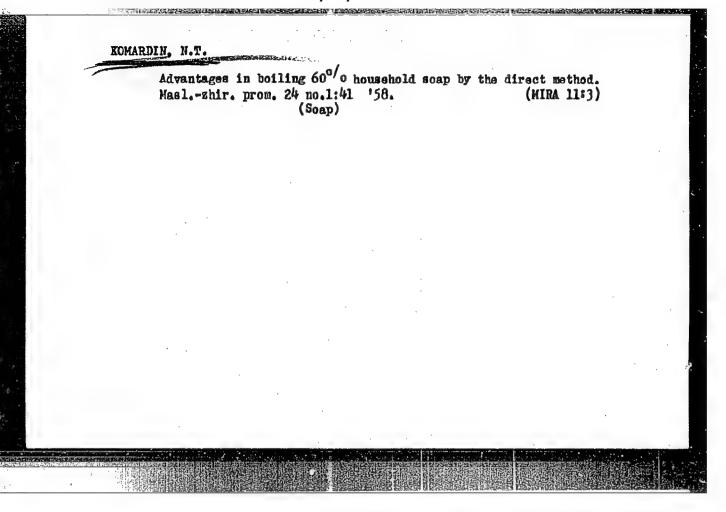
A: way for rapid determination of lead and antimony in metallic antimony. G1 hem dr 23/24 no.5/6:321-326 .58/59. (EEAI 10:4)

1. Fakulty of Sciences, Institute of Chemistry, Beograd.
(Lead) (Antimony) (Sulfuric acid)
(Hydrazine sulfate)



- 1. SHEYKO, A. N. Eng RAZGON, L. I. : KOMARDIN, N. T.
- 2. USSR(600)
- 4. Soap
- 7. Applying Bogad's method in the " novyi mylovar" Factory. Masl. Zhir. prom. 17, n0.3 1952.

9. Monthly List of Russian Accessions, Library of Congress, February 1953. Unclassified/



RUDITSKIY, M.G.; KOMARDINA, G.A.

Errors in the diagnosis of gastric cancer. Vop.onk. 7 no.11: 95-99 '61. (MIRA 15:5)

l. Iz Kurskogo oblastnogo onkologicheskogo dispansera (glav. vrach. - T.S. Kondrashova) i fakul tetskoy khirurgicheskoy kliniki (zav. - prof. M.G. Rudnitskiy) Kurskogo gosuderstvennogo meditsinakogo instituta.

(STOMACH—CANCER)

KOMARDINA, G.A.

Late results of surgical treatment of stomach cancer. Vop. onk. 8 no.12:73-77 '62. (MIRA 17:6)

1. 1z fakul'tetskoy khirirgicheskoy kliniki (zav. - prof. M.G. Ruditskiy) Kurskogo meditsinskogo instituta (dir. - prof. A.V. Savel'yov) 1 Kurskogo oblastnogo onkologicheskogo dispansera (glavnyy vrach - T.S. Kondrashova).

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ments of automatic control, remote control, measurement and computer engineering);
haniya. Kiev, Naukova dumka, 1964, 62 -630

extended storage memory, transformer denoted about the recipcuit memory,

received amount of information can be stored in the simplest way and our amount of equipment by using transferrance. Partous known transfereded-storage memories (ESM) utility transferrance under differentions (M. B. Velikovskiy, B. A. Kvison, Veptusy restor-lektroniki, no. 17, 1959; V. S. Baranov, Veprosy reliable knowless, no. 1, seriya VII,

ATTOTION: None

ATTOTION: None

ATTOTION: None

ATTOTION: None

ACTION: NO.

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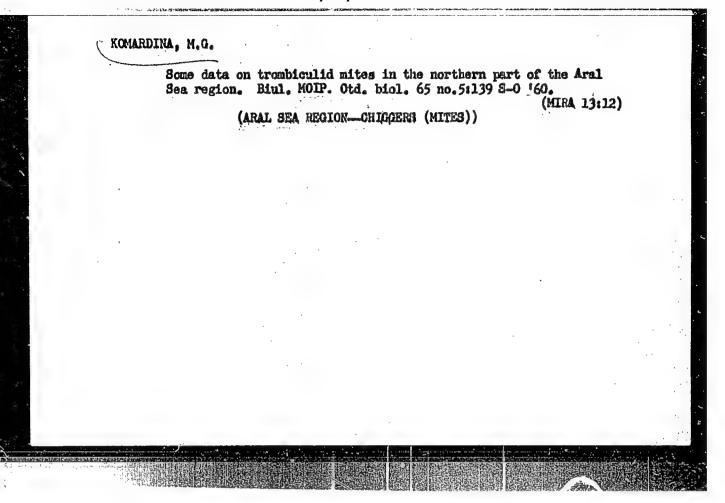
ACTION: ACTION:

KCMAPDINA, M. G., PODLESAKIY, G. I.

"The fleas of the Kara-Kums near the Aral sen and their importance in the epizootology of the plague." Page 262

Desystove soveshchaniye po parazitoloicheskim problemam i prirodnoochagovym beleznyam. 22-29 Oktyabrya 1959 g. (Tenth Conference on Parasitological Froblems and Diseases with Natural Foci 22-29 October 1959), Moscow-Leningrad, 1959, Academy of Medical Sciences USSR and Academy of Sciences USSR, No. 1 254pp.

Aralamorskaya Antiplague Statiom



KRYLOVA, K.T.; VARSHAVSKIY, S.N.; SHILOVA, Ye.S.; SHILOV, H.N.; POZZESSKIY, G.I.; KOMARDINA, M.G.

Characteristics of interspecific contact in colonies of the greater gerbil (Rhombomys opimus 14oht;) in the northern part of the Aral Sea region. Zool. shur. 40 no.3:434-446 Mr '61. (MIRA 14:3)

1. Aral Sea Anti-Plague Station and Aral Branch of the Moscow Society of Naturalists.

(Aral Sea Fegion-Carbils as carriers of disease)

KOMARDINA, M.G.; LOSEVA, Ye.I.; YEREMITSKAYA, N.A.

Occurrence of the tick Hyalomma asiaticum asiaticum infected with plague on a camel. Biul.MOIP.Otd.biol. 67 no.4:157-158

Jl-Ag '62. (MIRA 15:10)

(ARAL SEA REGION—TICKS AS GARRIERS OF DISEASE)

(PARASITES—CAMELS)

ROMARIJAN KINA, C. N.

Regional lithology of upper Jurassic carbonate deposits of the Hortheastern Caucasus. Dokl. AN SSSR 111 no.6:1318-1321 D *56.

1. Moskovskiy gosudarstvennyy universitet in. M.V. Lomonosova.

Predatavlono akadenikom S.I.Mironovym.

(Caucasus, Worthern-Geology, Stratigraphic)

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020012-2

KOMARDINKINA AUTHOR: Komardinkina. C.N. 132-12-3/12 TITLE: Facies Characteristics and Oil and Gas-Bearing Possibilities of Upper Jurassic Sediments in Las North-Eastern Caucasus (Fatsial'nyye osobennosti i neftegazonosnost' verkhneyurskikh otlosheniy Severo-Vostochnogo Kavkaza) PERIODICAL: Razvedka i okhrana nedr, 1957, # 12, p 10-18 (USSR) ABSTRACT: Three essentially different lithologic complexes were involved at the forming of the Upper Jurassic layers of the Kabardinos Balkar and North-Osetiya ASSR. They are: 1. The Lower carbonate terrigenous layer, corresponding the Callovian stage. 2. The middle carbonate, including the Upper Callsvian, Oxfordian and Lusitanian stages. 3. The upper sulfate-carbonate stage, belonging to the Kimeridgian-Tithonian stages, in several districts replaced by terrigenous deposits. After reviewing the characteristics of the different geologic strata of the Caucasus, the author gives a detailed account of the oil and gas-bearing properties of the Upper Jurassic formations. Deposits of crude oil and gas located in Upper Jurassic sediments in north Caucasus show various oil-gas manifestations: Card 1/4

132-12-3/12

Facies Characteristics and Oil and Gas-Bearing Possibilities of Upper Jurassic Sediments in the North-Eastern Caucasus

commercial deposits of oil and gas, asphaltites in porous rock formations, high bituminous carbonate rocks, secretion of carbohydrate gases and hydrogen sulfide gases from the surface of Upper Jurassic sediments (Fig. 5). The first oil and gas deposits were discovered in the Barakayevskaya district of north-western Caucasus in 1951. The second deposit was located at Datykh, where a well drilled through the upper part of Upper Jurassic carbonate sediments produced very light crude oil of the condensation type (approximately 5 tons in 24 hours). At several points of the North-Osetiya and Kabardino-Balkar ASSR in rocks of the Upper Jurassic layers were located asphaltite! deposits, whereby the most important deposits were found to be associated with cavernous and porous dolomites and limestones at places where the Lusitanian stage is thickest. The highest content of bitumen was found in the limestone layers of the Oxfordian stage, especially in the basin of the Gisel'don, Flagdon, and Baksan rivers. It must be noted that a number of strata of the Upper Jurassic complex have sufficiently good retaining properties, for which reason they may be considered as

Card 2/4

132-12-3/12

Facies Characteristics and Oil and Gas-Bearing Fossibilities of Upper Jurassic. Sediments in the North-Eastern Caucasus

likely prospects of oil and gas deposits. The sandstones and siltstones of the Callovian stage have the highest retaining properties, (up to 20 %). The author is of the opinion that the most promising zones for prospecting for oil and gas in the eastern Cis-Caucasus area are located at:

- 1. The eastern anticline zone of Dagestan in the region of the Kukur-Tausk and the Chubararkinsk elevations, especially at the first of these elevations with shallow Upper Jurassic sediments.
- 2. The vast territory of the Chernogorsk monocline, where the "Benoy" and "Datykhekoye" elevations are of special interest, and where the thickness of layers covering the Upper Jurassic deposits does not exceed 2.500-2.600 m.
- 7. The zone of upper layers of the Grosnyy district with relatively shallow deposits of the Upper Cretaceous period, proved by drill holes at Karabulak and Achaluk. Exploitation of Mesospic complexes of greater depth, including Upper Jurassic strata can be accomplished at these formations. The depth of Upper Jurassic deposits has been established to be

Card 3/4

YOMARDINKINA, G. N.

AUTHOR

Komardinkina, G.N.

20-3-49/59

TITLE

The Kelloway Deposits of the Central Part of North Caucasus. (Kelloveyskiya otlozheniya tsentral'noy chasti Severnogo Kavkaza).

PERIODICAL

Doklady Akademii Nauk, 1957, Vol. 115, Nr 3, pp. 597 - 600 (USSR.).

ABSTRACT

Geological research works detected in recent years an exploitable gas..., petroleum resp. occurence in the Kelloway deposits in the district of Maykop. Therefore this complex can be considered as promising also in other districts of North Caucasus, especially in its central part. Therefore it is extremely important to explain the character of the deposits of this level here. The field- and laboratory investigations, especially those of the sector of the Chegem river in the Kabardinian-Balkar autonomous republic up to the Great Laba river facilitated the determination that terrigenous rocks are predominating here to which carbonaceous rocks are subordinated. The lower sublevel is built of terrigenos rocks whereas carbonaceous rocks occur in the central and lower level. Of clastic rocks occur here gravelites more rarely conglomerates. The gravelites are, according to their composition, similar to "arcasis". The conglomerates form under the gravelites and arenaceous rocks intermediate layers of varying thickness or occur as basalt horizon of the level. Sands and arenaceous rocks preserve the same mineral composition as the gravelites. In the heavy fraction of the arenaceous rocks and gravelites minerals of the constant group occur in considerable quantities. zirconium, garnet,

Cardl/3

20-3-49/59

The Kelloway Deposits of the Central Part of North Caucasus.

turmaline and rutile and such of the ilmenite-magnetite group; furthermore of the glimmer- and titaniferous group. The middle- and fine-grained arenaceous rocks are irregularly sorted. Argillaceous rocks take part only to an unimportant extent in the building of the level. Marly and carbonaceous rocks have a restricted distribution. especially in the west of the district. The authors succeeded by means of detailed petrographic-mineralogical investigations to detect the main conformities of the mentioned rock types. The localization plan of the lithic facies appearing from it facilitated the indication of the position of the main- and partial sources of the clastic material. As far as a general coarsening of the material is indicated beginning with the South districts towards the north, it is possible to indicate the position of the main continent within the boundaries of which the metamorphized carbonaceous rocks were eroded. This general picture is complicated by the occurrence of a partial elevation in the district of Pyatigor'ye which projected over the sea level in the middle jurassic age. Mainly palaeozoic granites and grandiorites were corroded. Then a part of these massifs took part in a depression and was covered by the deposits of the Kelloway sea. Henceforth a continental district near Kislovodsk and in the north of it exercises the main influence. In most recent time the presence of eruptive rocks under the upper jurassic mass was detected in the vicinity of Wassentuki. These eruptive rocks are quartz diorites.

Card 2/3

The Kelloway Deposits of the Central Part of CIAL REPSET 60513R000824020012-2 (There are 1 figure, 1 table, 3 Slavic references).

ASSOCIATION I

PetroLeum Institute AN USSR (Institut nefti Akademii nauk SSSR).

PRESENTED

By S. I. Mironov, Academician, January 25, 1957

SUBMITTED

January 21, 1957;

AVAILABLE

Library of Congress

Card 3/3

KOMARDINKINA, G. N., Cand Geol-Min Sci -- (diss) "Petrography of Upper Jurassic deposits in the eastern and central part of Northern Caucasus and paleography of the time of their formation." Mos, 1958.

15 pp (Acad Sci USSR, Inst of Petroleum, Laboratory of Paleography im Prof V. P. Baturin), 120 copies (KL, 15-58, 113)

-14-

KOMARDINKINA, G.N.; PRYAKHINA, Yu.A.; KONYUKHOV, I.A.

Studying fractured reservoir rocks and their importance for oil and gas prospecting in Daghestan. Razved. i okh. hedr 27 no.3: 17-26 Mr '61. (MIRA 14:5)

1. Moskovskiy gosudarstvennyy universitet.
(Daghestan—Petroleum geology)
(Daghestan—Gas, Natural—Geology)

KOMARDINKINA, G.N.

Siliceous formations in upper Jurassic deposits of the northeastern Caucasus. Dokl. AN SSSR 140 no.2:445-447 S 61. (MIRA 14:9)

1. Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova. Predstavleno akademikom N.M.Strakhovym. (Caucasus--Silica)

KONYUKHOV, I.A.; KOMARDINKINA, G.N.

New mineral formations in Upper Jurassic deposits of the northeastern Caucasus. Vest.Mosk.un.Ser.4: Geol. 17 no.2:20-27 Mr-Ap '62. (MIRA 15:5)

1. Kafedra geologii i geokhimii goryuchikh iskopayemykh Moskovskogo universiteta.

(Caucasa, Northern-Minerals)

KONYUKHOV, I.L.; PRYAKHINA, Yu.A.; KOMARDINKINA, G.N.

Lithologic characteristics of Upper Cretaceous sediments in Daghestan. Izv. vys. uch/b. zav.; geol. i razv. 6 no.2:69-83 F 163. (MIRA 16:6)

1. Moskovskiy gosudarstvennyy universitet im. M.V. Lomonosova. (Daghestan—Geology, Stratigraphic)

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000824020012-2

GRACHEVSKIY, M.M.; KHACHATRYAN, R.O.; KOMARDINKINA, G.N.

Reefy nature of the Khilkovo carbonate massif. Dokl. AN SSSR 153 no.2:429-432 N '63. (MIRA 16:12)

1. Predstavleno akademikom D.I.Shcherbakovym.

KOMARDINKINA, C.R.; YURIN, G.A.

Jointing of Upper Juressic carbonate sediments of Daghestan.
Razved.i okh.nedr. 28 no.11:14-19 N '62. (MIRA 15:12)

1. Institut geologii 1 razrabotki goryuchikh iskopayesykh
AN SSSR (for Komardinkina). 2. Moskovskiy gosudaratvem.yy
universitet (for Yurin).

(Daghestan—Jointing (Geology))

FOMARCK,

96-1-23/31

Komarek, A., Engineer. AUTHOR:

The Economic Use of Coal Mills (Ekonomicheskoye ispol'-

zovaniye ugol'nykh mel'nits)

PERIODICAL: Teploenergetika, 1958, Vol.5, No.1, p. 82 (USSR) This summarises a Czech article*which compares fine and

coarse milling of pulverised fuel. If the fuel is coarsely milled, the milling costs fall, but the fuel is rather harder ABSTRACT:

TITIE:

There are 1 figure and 1 Non-Slavic reference.

Library of Congress. AVAILABLE:

* Energetika Nr 4, 1957, pp. 198-205 card 1/1

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KOMPREK. A.

96-4-19/24 AUTHOR: Komarek, A.

The effect of system frequency-fluctuations on the TITLE: operating reliability of steam-turbine blades.

(Vliyaniye izmeneniy chastoty seti na ekspluatatsionnuyu nadezhnost' lopatok parovykh turbin).

No.4, pp.89-90 (USSR). PERIODICAL: Teploenergetika, 1958,

ABSTRACT: This is a summary of an article that appeared in the

Czech journal "Energetika", No.8, 1957. It is concerned with the vibration of turbine blades as affected by variations in turbine speed and other conditions. Quite small speed changes may cause serious harm by altering

the vibration of blades.
There are 3 figures and 1 Czech reference.

AVAILABLE: Library of Congress.

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SOV/96-59-4-16/21

Engineer Komarek, A. AUTHORS:-

Morozov, B.I., Candidate of Technical Sciences

TITLE:

A Steam Turbine of 100 MW (Parcvaya turbina moshchnost'yu

100 Myt)

PERIODICAL: Teplcenergetika, 1959, Nr 4, pp 84-86 (USSR)

ABSTRACT:

The engineering works imeni Ienin in Plzen manufacturing the first Czechoslovakian steam turbine of 100 MW for initial steam conditions of 135 atm and 555°C with reheat to 530°C. A cross-sectional drawing of this set is given in Fig.1, it will operate as a unit with a drum type boiler. The blading of the last stage is 585 mm long. The high pressure rotor is a solid forging and the discs of the first nine stages of the medium pressure cylinder are also forged integral with the shaft. The discs of the last four stages of the medium pressure cylinder and of the low pressure cylinder are fitted on the shafts. The twisted blades of the last two low pressure stages are stampings, all

the others are machined forgings. Seven stage regenerative feed water heating is used to a temperature

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SOV/96-59-4-16/21

A Steam Turbine of 100 MW

of 230°C. For the sake of thermal flexibility the high pressure turbine casing has two walls, an inner and an outer, so that the cylinder wall can be made relatively thin and the horizontal flange is narrow. Steam from the forward gland is passed into the flange. The quantity of steam used is such that the flange heats up at practically the same rate as the cylindrical part of the framework. The set is started up from the cold with reduced steam conditions; starting from the hot condition is also described. Lagging has been used to prevent the lower part of the frame from cooling more rapidly than the top. The turbine design was affected by the circumstance that for the first half of its life the set will take base load and will be kept as fully loaded as possible but after 1970 the base load will be taken by atomic power stations and this set will be used to cover variations in the load on the power system. It will, therefore, be necessary to stop the set every day and so austenitic steels cannot be used for large parts. In fact, austenitic steels were only used to make the

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A Steam Turbine of 100 MW

SOV/96-59-4-16/21

relatively thin superheater tubes. Brief data are given about the size of the power station buildings and other facilities. There are 2 figures and 2 Czech references.

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SOV/96-59-7-18/26

AUTHORS: Komarek, A., Engineer, and Morozov, B.I., Candidate of

Technical Sciences

TITLE: A Combined Steam-gas Installation. (Kombinirovannaya

parogazovaya ustanovka)

PERIODICAL: Teploenergetika, 1959, Nr 7, pp 87, (USSR)

ABSTRACT: A combined steam-gas turbine installation of 4 000 kW is now commencing to operate in Czechoslovakia. A schematic

circuit diagram of the installation is given in Figure 1. A single-stage centrifugal compressor with radial blades compresses the air to a pressure of 2.8 atm. Another compressor operates on blast-furnace gas which is compressed in the combustion chamber to a pressure of 3.2 atm. The gas is mixed with sufficient air to ensure complete com-

bustion. At the outlet from the combustion chamber the combustion products are mixed with an additional quantity of air sufficient to reduce the temperature to 900°C.

Card 1/2 The gases are still further cooled on passing through a heat exchanger. At a temperature of 750°C the gas flow

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A Combined Steam-gas Installation

is delivered to a turbine, leaving it at a temperature of 568°C and a pressure of 1.03 atm. These exhaust gases pass to a boiler where they are cooled to 120°C. The boiler generates saturated steam, at a pressure of 25 atm heated to 600°C in a super-heater, which drives a steam turbine. The gas turbine works on the open cycle and has an efficiency of 27.3%. The main characteristics of the turbine are given. It has been calculated that when an additional combustion chamber has been installed between the gas turbine and the boiler the power station burning blast-furnace gas will operate with an efficiency of 32% and an output of 20 MW. The gas will be delivered to the turbine at a temperature of 700°C, and the steam conditions will be 40 atm and 500°C. The cycle described is suitable for installations of 20 - 50 MW.

There are 2 figures and 2 references, one of which is Soviet and 1 Czechoslovak.

Card 2/2

KOMAREK, A.; STRIGIN, B.K.

Temperature dependence of the emissivity of stainless steel for different types of surface treatment. Teplofiz. vys. temp. 1 no.1:30-32 J1-Ag '63.

1. Moskovskiy energeticheskiy institut.

S/170/63/006/003/011/014 B104/B186

AUTHORS:

Agababov, S. G., Komarek, A.

emissivil

TITLE:

Experimental determination of the degree of blackness platinum and of platinum-rhodium wires

Inzhenerno-fizicheskiy zhurnal, v. 6, no. 3, 1963, 99 - 102

TEXT: The temperature dependence of the degree E of blackness of platinum and platinum-rhodium wires was determined by measuring the quantity of and platinum-rhoulum wires was determined by measuring the quantity heat transferred from electrically heated wires to the inner surface of

watercooled glass container in vacuo (10-5 - 10-6 Newton/m2). The aim was watercooled glass container in vacuo (10 - 10 Newton/m). The alm was to eliminate systematic errors due to convective heat transfer. Results: Eas a function of temperature t (°C) may be described by E = 0.0386 + 1.29.10-4t - 0.863.10-9t2 (platinum) and by E= 0.0809 + 0.571.10-4t + 0.0565.10-6t2 (platinum-rhodium). The maximum relative error of the experimental results was about 2 %, the mean square deviations were about = 0.14 % and $\frac{1}{\Delta}^2$ = 0.47 %, respectively. There are 2 figures.

Card 1/2

S/170/63/006/003/011/014 B104/B186

Experimental determination of ...

ASSOCIATION: Energeticheskiy institut, g. Moskva (Power Engineering Institute, Moscow) Zavod imeni V. I. Lenina, g. Pl'zen, ChSSR (Plant imeni V. I. Lenin, Plzeň, Czechoslovakia)

September 19, 1962 SUBMITTED:

Card 2/2

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2, 3038, 54, 302, 309, 3312/0322
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Yerzhenek, Ya.); Wagner, Karel (Vagner, (4); Mannerek, Arnost;
(Tomcik, Jan (Tomchik, Ya.)
resimpment and construction problems of the first facebookevax nuclear
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 erarna energia, no. 9, 1964, 312-322
   caplear power plant, reactor, pressure vessel. . . ver cutput, fuel
   is article reports on the principal superbut, a masse, or which was
    numection with the testing of the reliacility of the important
  - first Czechoslovak nuclear electric tower .an . The the rewer out-
 or present stage of the development and organization of the technological
 and of the construction of the power thant. The the uses gas cool-
 way-water reactor with natural metallin aranium and it being built at
 time in the CSR. The relatively large cutput lease, it the Czechoslo-
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